

Status of Water Supply Plan Updates

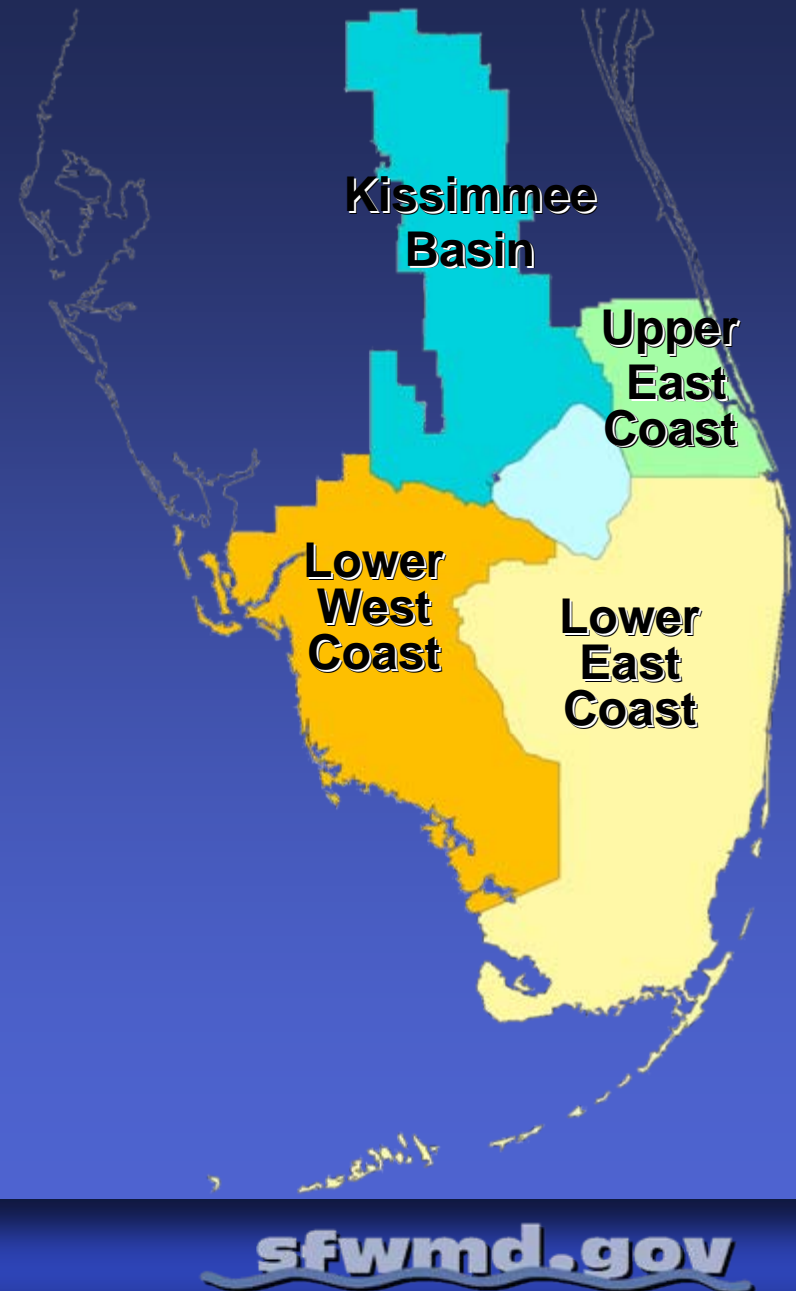
*John Mulliken, Director
Water Supply Planning*

*Water Resources Advisory Committee
June 8, 2006*



sfwmd.gov

Four Water Supply Plan Regions



Plan Outline

Chapter

1. Introduction
2. Population and Demand Projections
3. Resource Analysis
4. Issues
5. Source Options
6. Resource Development Projects
7. Water Supply Projects

County

Supply Entity:

Service Area:

Population and Supply Summary:

Proposed supply projects by 2015: ☒ adequate ☐ inadequate

Proposed supply projects by 2025: ☒ adequate ☐ inadequate

The present supplies are comprised of 100 percent traditional fresh groundwater. The 2025 supplies are projected to be 64 percent traditional fresh groundwater and 36 percent AWS.

| <i>Item</i> | <i>2005 (Existing)</i> | <i>2015 (Projected)</i> | <i>2025 (Projected)</i> |
|---|----------------------------|-----------------------------|-----------------------------|
| <i>Population</i> | 56,722 | 65,587 | 75,625 |
| <i>Per Capita (gallons per day finished water)</i> | | 321 | |
| <i>(Note: All potable volumes are finished water unless noted.)</i> | | | |
| | <i>MGD</i> | <i>MGD</i> | <i>MGD</i> |
| <i>Potable Water Demand (average annual)</i> | 18.1 | 21.3 | 24.6 |
| <i>Volume from Traditional Sources</i> | 18.1 | 18.1 | 18.1 |
| <i>Volume from Alternative Sources</i> | 0.0 | 10.0 | 10.0 |
| <i>Reclaimed Capacity Available</i> | 9.0 | 11.7 | 11.7 |
| <i>Additional Potable Water Needed</i> | 0.0 | 0.0 | 0.0 |

=28.1 MGD

Project Summary:

| <i>Project Type</i> | <i>Gross Capacity (MGD)</i> | | <i>Estimated Capital Cost (\$ million)</i> |
|---|---------------------------------|-------------|--|
| | <i>2015</i> | <i>2025</i> | |
| <i>Traditional</i> | 0.0 | 0.0 | \$0.0 |
| <i>Alternative^a</i> | | | \$68.2 |
| <i>Captured Storm Water / Surface Water</i> | 2.7 | 2.7 | |
| <i>Brackish Water</i> | 10.0 | 10.0 | |
| <i>Seawater</i> | 0.0 | 0.0 | |
| <i>Reclaimed Water^a</i> | 0.0 | 0.0 | |
| <i>Other (potable water ASR)</i> | 0.0 | 0.0 | |
| <i>Totals</i> | 12.7 | 12.7 | \$68.2 |

a. Reclaimed water in some applications may reduce per capita demands or offset some limitations on resource availability. This will be examined on a case-by-case basis during the permitting process.

 *County*

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Utility Summary

General Assumptions

- Existing permitted quantities remain for future - - **not a guarantee**
- Existing brackish capacity = treatment capacity
- Existing traditional capacity = lesser of treatment capacity and CUP average annual permitted quantity
- Proposed new traditional capacity may not count toward meeting future demand
- No offset to potable for reclaimed

Utility Summary

General Assumptions (cont.)

- Finished and raw water ASR already counted in treatment capacity
- Any ASR project including reclaimed water from WWTP was considered a reclaimed project
- Existing reclaimed capacity based on FDEP “Appendix D”
- Projects classified as BMPs were not included
- Project serving areas outside of the SFWMD were not included
- No project submittal(s) - - - no new quantities shown

Lower West Coast

PWS Status

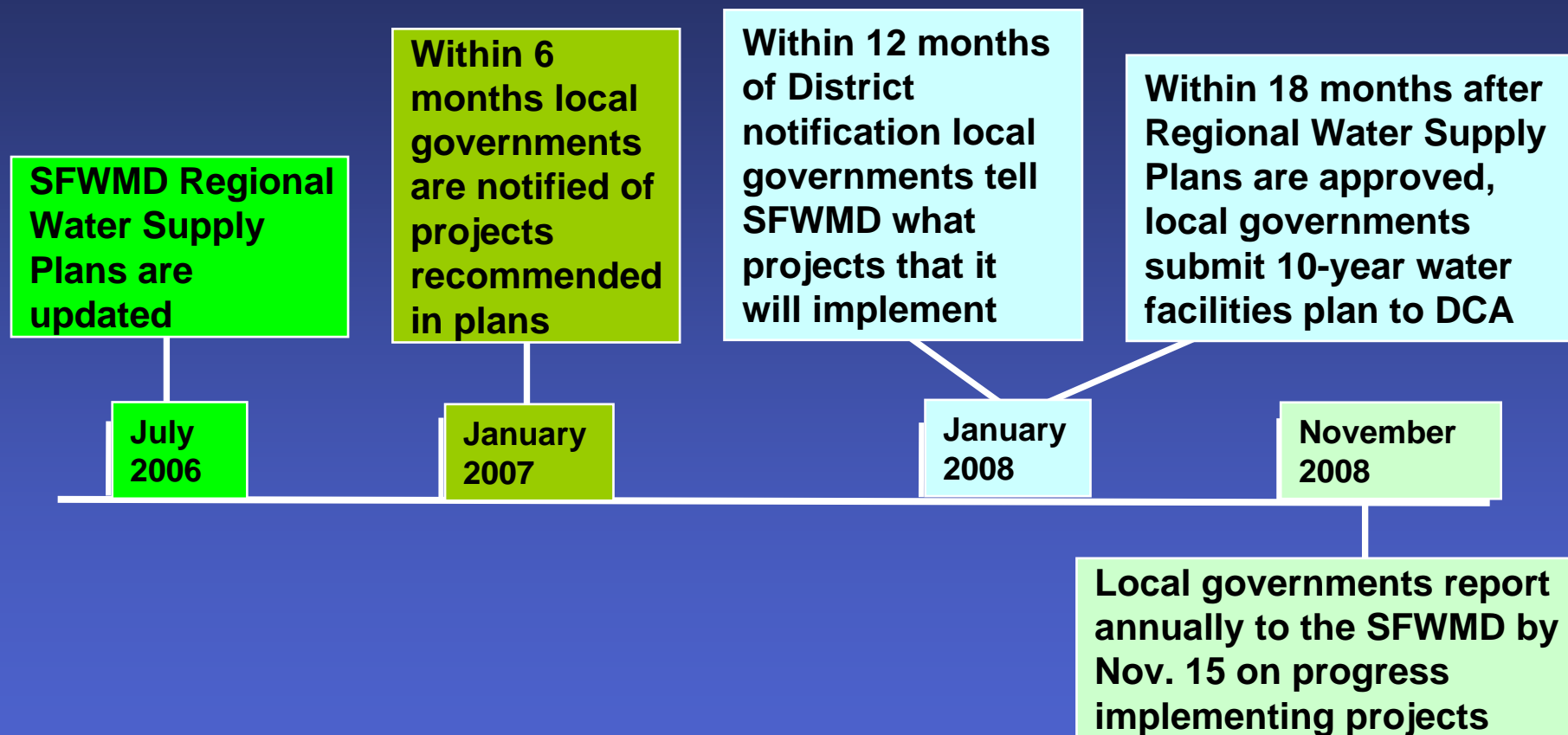
Supplies Appear Adequate

| |
|--------------------------|
| Bonita Springs Utilities |
| Cape Coral |
| Charlotte Co. |
| Clewiston |
| Collier Co. Utilities |
| Fort Myers |
| Hendry Correctional |
| Island Water Assoc. |
| Labelle |
| Lee Co. Utilities |
| Marco Island |
| Naples |

Supply Shortfall Projected

| |
|---------------------------|
| Ave Maria |
| Everglades City |
| FGUA Lehigh |
| FGUA Golden Gate |
| Greater Pine Island Water |
| Hendry/Port Labelle |
| Immokalee |
| Moore Haven |

Linking Water Supply & Land Use Planning



Local Government Impact

- Formal response
- 10 year facilities plan
- Comp Plan Update
- DCA review for consistency
 - Comp plan amendments
 - DRIs
 - Facilities plan

Upcoming Meetings

- | | |
|--------------------|---------|
| ■ Lower East Coast | June 21 |
| ■ Upper East Coast | June 22 |
| ■ Lower West Coast | June 26 |
| ■ Kissimmee Basin | June 29 |

Next Steps

- Public review of all plans June
- Regional Workshops June 21 – 29
- WRAC July 6
- Governing Board July 12

Questions

